

120 BC

Mithridates the Great had been king of Pontus since 120 BC. Bold and very ambitious, he saw in Rome's civil strife his chance to extend his kingdom in the northeastern part of Asia Minor.

120BC

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Homelands of German Cimbri  
and Teutones invadated. The  
great migration begins

epic trek to find a new homeland.  
this trek lasted 24 years, took them  
thousands of miles and finally  
brought them against Rome.  
Gaius Marius defeated them.  
and they were no more.

CIMBRIC CITERSONENSE =  
modern Denmark = Jutland  
Peninsula

120BC

CIMBRI - a very large confederacy of German tribes who lived in northern half of the CIMBRIAN CHEROKEE were forced by a massive natural disaster to leave their homeland. Together with their immediate southern neighbors the TEUTONES, they began an

they wandered around Europe in  
search of this homeland until they  
ran afoul of Rome in 102 BC

Strabo says that the CIMBRI  
(A Germanic people who originally  
inhabited the northern half of the  
Jutland Peninsula (modern Denmark))  
were driven by a sea flood to search  
for a new homeland

In combination with the TEUTONES  
and mixed group of Germans and  
Celts (The Marcomanni-Chaerisci-Tequini)

to describe a cone. As a result, the equinoxes which lie at the intersections of the celestial equator and the ecliptic move on the celestial sphere. At various times different stars occupy positions at or near one of the poles. After about 26,000 yrs the equinoxes and poles lie again at nearly the same points on the celestial sphere.

C120BC

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The precession of the equinoxes.  
(westward motion of the equinoxes  
along the Ecliptic) was 1<sup>st</sup> noted  
C120BC by HIPPARCHUS and  
explained (1687) by Isaac Newton  
is primarily due to the gravitational  
attraction of the moon & the sun  
on the earth's equatorial bulge  
which causes the earth's axis



C 120 BC

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Precession was 1<sup>st</sup> noted by  
HIPPARCHUS

Westward motion of equinoxes  
along the ECLIPTIC

120BC

Semaria was destroyed  
by John HYRCANUS.

120BC

1912 Dates J-BK

### SAMARIA

John HYRCANUS completely destroyed Samaria in 120BC and after it was rebuilt it was restored to the descendants of the expelled Samaritans (expelled by Sennacherib the Great)

120BC

CIMBRI (a very large confederacy of German Tribes) were settled in the JUTLAND peninsula until about 120BC when some natural disasters prompted them to migrate.

With their southern neighbors the TEUTONES, they began a trek to find a new homeland - Trek lasted 20 yrs & took them thousands of miles.

120BC

GNAEUS DOMITIUS AHENOBARBUS  
won for Rome: Gaul - across the -  
seps; to ensure that Rome had  
a safe land route for her  
armies between Italy & Spain.  
The province consisted of a coastal  
strip all the way from LIGURIA  
to the PYRENEES

a tropical year.

There was a discussion of precession.  
Also they still considered the earth to  
be the center of the moon, sun, planets  
& stars

C/20BC  
141BC  $\Rightarrow$  127BC

Duncan: Cal

Hipparchus in Alexandria was one of the first astronomers to notice the difference between the Sidereal yr and the tropical yr (Cal. yr) when he took measurements of the yr according to the equinoxes on his SKAPHE, from 141 to 127 BC. The Egyptians had for centuries been measuring sidereal yr rather than

C120 BC  
141-127 BC

Duncan: Cal

Hipparchus gave the length  
of tropical yr as  
365 d 5h 55m  
+ 6m 14s from 1900 yr)